

ARTMENT OF COMMERCE UNITED STATES DE **Patent and Trademark Offic**

COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. SON-1690 I **FUJIWARA** 11/01/99 09/431.076 **EXAMINER** MMC1/0206 CHEN_I RONALD P KANANEN ESQ PAPER NUMBER **ART UNIT** RADER FISHMAN & GRAUER 1233 20TH STREET NW 2813 SUITE 501 **DATE MAILED:** WASHINGTON DC 20036 02/06/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



Office Action Summary

Application No. 09/431,076

Applicant(s)

Examiner

Jack Chen

Group Art Unit 2813

Fujiwara

X Responsive to communication(s) filed on <u>Nov 1, 19</u>	999
This action is FINAL .	and the marite is closed
the practice under EX Darle Vu	except for formal matters, prosecution as to the merits is closed ayle, 1935 C.D. 11; 453 O.G. 213.
A shortened statutory period for response to this action	on is set to expire month(s), or thirty days, whichever n. Failure to respond within the period for response will cause the). Extensions of time may be obtained under the provisions of
Disposition of Claims	is/are pending in the application.
	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration
Claim(s)	is/are allowed.
Claim(s)	IS/are rejected.
Claim/a)	15/416 00/60000 10:
V Claims 1.51	are subject to restriction or election requirement.
Application Papers	
☐ The specification is objected to by the Examin ☐ The oath or declaration is objected to by the I Priority under 35 U.S.C. § 119 ☐ Acknowledgement is made of a claim for fore ☐ All ☐ Some* ☐ None of the CERTIFI ☐ received.	is approved disapproved. is approved disapproved. ier. Examiner. eign priority under 35 U.S.C. § 119(a)-(d). ED copies of the priority documents have been de/Serial Number) ion from the International Bureau (PCT Rule 17.2(a)).
Notice of References Cited, PTO-892	
Information Disclosure Statement(s), PTO-14	49, Paper No(s)
☐ Interview Summary, PTO-413	view PTO-948
☐ Notice of Draftsperson's Patent Drawing Rev	152
☐ Notice of Informal Patent Application, PTO-1	
	ACTION ON THE FOLLOWING PAGES
I SEE OFFICE	ACTION ON THE POLEOTHER.

Serial Number: 09/431,076

Art Unit: 2813

DETAILED ACTION

Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 23-27, drawn to a method of forming a semiconductor device, classified in class 438, subclass 261.
 - II. Claims 1-22, drawn to semiconductor device, classified in class 257, subclass 300+.
 - III. Claims 28-51, drawn to method of writing data, classified in class 365, subclass 185+.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the device of Group II could be made in a materially different method from the method of Group I such as instead of heating the FN tunneling film at a high temperature, heating the FN tunneling film at a lower temperature for a longer period of time.

Serial Number: 09/431,076

Art Unit: 2813

- 3. The inventions are distinct, each from the other because of the following reasons: Inventions II and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product as claimed can be used in a materially different process of using that product such as instead of raising the potential of the gate electrode, apply a voltage which lowers the potential of the gate electrode.
- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II or Group III, restriction for examination purposes as indicated is proper.
- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

Serial Number: 09/431,076

Art Unit: 2813

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Chen whose telephone number is (703)308-5838.

Jack Chen

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February 1, 2001

Charles Bowers.

Supervisory Patent Examiner Technology Center 2800